

# INFORMATION DISCLOSURE CITATION

Attorney Docket No.

046124-5114

Application No.: 10/076,273

Applicant(s): Masatoshi F. MOTO et al.

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Filing Date: February 19, 2002

Group Art Unit: 3641

PTO Form 1449

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Sub Class	Translation YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1	G. Pretzler et al., "Neutron Production by 200 mJ Ultrashort Laser Pulses," <i>The American Physical Society</i> , Volume 58, No. 1 (1998), pp. 1165-1168. ✓
2	T. Ditmire et al., "Nuclear Fusion from Explosions of Femtosecond Laser-Heated Deuterium Clusters," <i>Nature</i> , Volume 398 (April 8, 1999), pp. 489-492. ✓
3	T. Spencer et al., "Laser Generation of Proton Beams for the Production of Short-Lived Positron Emitting Radioisotopes," <i>Nuclear Instruments and Methods in Physics Research</i> , B 183 (2001), pp. 449-458. ✓
4	Gérard A. Mourou et al., "Extreme Light," <i>Scientific American</i> , May 2002, pp. 63-68. ✓
5	L.M. Gorbunov et al., "Plasma Ions Dynamics in the Wake of a Short Laser Pulse," <i>The American Physical Society</i> , Volume 86, No. 15 (April 9, 2001), pp. 3332-3335. ✓
6	T. Zh. Esirkepov et al., "Proposed Double-Layer Target for the Generation of High-Quality Laser-Accelerated Ion Beams," <i>The American Physical Society</i> , Volume 89, No. 17 (October 21, 2002), pp. 175003-1 - 175003-4. ✓
7	A. Pukhov, "Three-Dimensional Simulations of Ion Acceleration from a Foil Irradiated by a Short-Pulse Laser," <i>The American Physical Society</i> , Volume 86, No. 16 (April 16, 2001), pp. 3562-3565. ✓
8	Y. Sentoku et al., "High-Energy Ion Generation in Interaction of Short Laser Pulse with High-Density Plasma," <i>Applied Physics</i> , B 74 (2002), pp. 207-215. ✓
9	K. Nemoto et al., "Laser-Triggered Ion Acceleration and Table Top Isotope Production," <i>Applied Physics Letters</i> , Volume 78, No. 5 (January 29, 2001), pp. 595-597. ✓
10	M. I. K. Santala et al., "Production of Radioactive Nuclides by Energetic Protons Generated from Intense Laser-Plasma Interactions," <i>Applied Physics Letters</i> , Volume 78, No. 1 (January 1, 2001), pp. 19-21. ✓

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11	K. W. D. Ledingham et al., "Photonuclear Physics When a Multiterawatt Laser Pulse Interacts with Solid Targets," <i>The American Physical Society</i> , Volume 84, No. 5 (January 31, 2000), pp. 899-902. ✓
12	A. Maksimchuk et al., "Ultrafast Science: From Chemical to Nuclear," <i>Optical Society of America</i> (1999), pp. 2-1 - 2-3. ✓
13	L. Disdier et al., "Fast Neutron Emission from a High-Energy Ion Beam Produced by a High-Intensity Subpicosecond Laser Pulse," <i>The American Physical Society</i> , Volume 82, No. 7 (February 15, 1999), pp. 1454-1457. ✓
14	J. Zweiback et al., "Characterization of Fusion Burn Time in Exploding Deuterium Cluster Plasmas," <i>The American Physical Society</i> , Volume 85, Number 17 (October 23, 2000), p. 3640-3643. ✓
15	J. Badziak et al., "Fast Proton Generation from Ultrashort Laser Pulse Interaction with Double-Layer Foil Targets," <i>The American Physical Society</i> , Volume 87, No. 21 (November 19, 2001), pp. 215001-1 - 215001-4. ✓
16	E. L. Clark et al., "Measurements of Energetic Proton Transport Through Magnetized Plasma from Intense Laser Interactions with Solids," <i>The American Physical Society</i> , Volume 84, No. 4 (January 24, 2000), pp. 670-673. ✓
17	A. J. Mackinnon et al., "Effect of Plasma Scale Length on Multi-MeV Proton Production by Intense Laser Pulses," <i>The American Physical Society</i> , Volume 86, No. 9 (February 26, 2001), pp. 1769-1772. ✓
18	A. J. Mackinnon et al., "Enhancement of Proton Acceleration by Hot-Electron Recirculation in Thin Foils Irradiated by Ultraintense Laser Pulses," <i>The American Physical Society</i> , Volume 88, No. 21 (May 27, 2002), pp. 215006-1 - 215006-4. ✓
19	A. Maksimchuk et al., "Forward Ion Acceleration in Thin Films Driven by a High-Intensity Laser," <i>The American Physical Society</i> , Volume 84, No. 18 (May 1, 2000), pp. 4108-4111. ✓
20	P. McKenna et al., "Characterization of Multiterawatt Laser-Solid Interactions for Proton Acceleration," <i>Review of Scientific Instruments</i> , Volume 73, No. 12 (December 2002), pp. 4176-4184. ✓
21	T. Ditmire et al., "High Energy Ion Explosion of Atomic Clusters: Transition from Molecular to Plasma Behavior," <i>The American Physical Society</i> , Volume 78, No. 14 (April 7, 1997), pp. 2732-2735. ✓

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